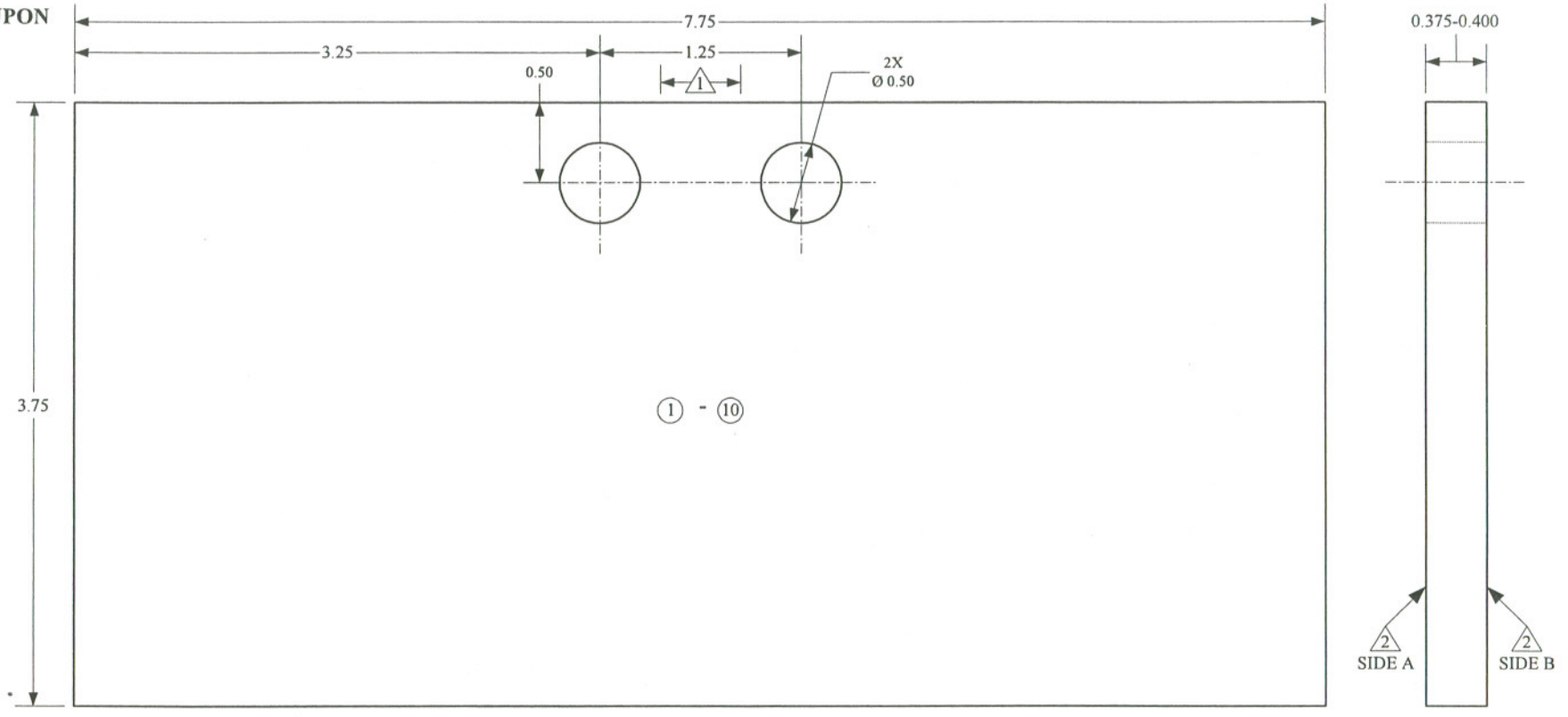
A1A COUPON

COUPON



NOTES

1. SERIALIZE THE COUPONS A1A-01 TO A1A-22 ON TOP EDGE AT NOTED LOCATION USING 0.25 IMPRESSION STAMP, 0.004-0.008 DEEP
2. $0.025\sqrt{\frac{125}{M}}\sqrt{64}$
3. BREAK ALL SHARP EDGES 0.005-0.015
4. FLUORESCENT PENETRANT INSPECT PER ASTM E1417
5. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM CONDUCTIVITY TESTS PER MIL-STD-1537
6. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM SURFACE ROUGHNESS MEASUREMENT PER ASME B46.1

(1) – (10) MARK SIDE A WITH DATA MATRIX™ SYMBOLS

ALGLE PROGRAM	TITLE: COUPON	DRAWING NUMBER: A1A	REVISION: B	DIMENSIONS: ALL DIMENSIONS IN INCHES	TOLERANCES: UNLESS OTHERWISE NOTED X.X = ± 0.1 X.XX = ± 0.05 ANGLES = ± 0.5°	DRAWN: JOHN COATES
DPM EVALUATION	MATERIAL: 7075-T7351 PER AMS 4078 (0.5 INCH PLATE)	DATE: 10/18/00	SHEET: 1 OF 1	SCALE: NOT TO SCALE		CHECKED: FRANK ZUECH

Northwest Machining and Mfg., Inc.
1957 LANARK STREET • MERIDIAN, IDAHO 83642
PHONE (208) 888-5334 • FAX (208) 888-0917
e-mail nwmm@micron.net

Date: 12/02/00

Job Order Number: 14556

Customer: GENERAL ATOMICS

Part Number: A1A REV: ~~A~~ B bm DEC 02 2000

Description: COUPON

Quantity: 22

Purchase Order Number: H030105

Customer Supplied Material? NO

CERTIFICATION OF CONFORMANCE

NORTHWEST MACHINING & MFG., INC., DOES HEREBY CERTIFY THAT PARTS MANUFACTURED UNDER THE ABOVE NOTED PURCHASE ORDER WERE PRODUCED AS STIPULATED BY THAT PURCHASE ORDER.

IT IS FURTHER CERTIFIED THAT TEST REPORTS VERIFYING COMPLIANCE WITH DESIGN STANDARDS, MATERIAL CONTROLS, & INSPECTION REQUIREMENTS NOTED ON THE PURCHASE ORDER, ARE ON FILE AND AVAILABLE UPON REQUEST.

SIGNED: S. D. Harmon

SID HARMON / (QCM)

INSPECTION REPORT

MATERIAL: 7075-T351 | SPEC: AMS-4078 | C.O/CERT: TMX 306 # H03815 | SHEET ___ OF ___ | Lot # GG7111

.X +/- ___ | .XX +/- ___ | .XXX +/- ___ | ANGLE +/- ___

CUSTOMER: General Atomics | P/O #: H030105 | DRWG #: AIA | PART NAME: Coupon | DCN: ___

JOB #: 14556 | S/O #: ___ | REV #: A | QTY: 22 | ADCN: ___

DIM NO.	CHARACTERISTIC OR DIMENSIONAL NOTATION	FIRST PART	BY	DATE	INPROCESS INSP.	BY	DIMENSION OF RESPECTIVE PARTS HI / LO						BY	DATE
1	.375-.400	.387-.392	NW3	DEC 01 2000			.395	.386					NW3	DEC 01 2000
2	3.75	3.749-3.750	NW3	NOV 27 2000	3.749-3.750	NW3	.3750	3.746						
3	3.25	3.248	NW3	DEC 01 2000			3.253	3.248						
4	.50	.502	NW3	DEC 01 2000			.503	.498						
5	1.25	1.250	NW3	DEC 01 2000			1.253	1.249						
6	7.75	7.748	NW3	NOV 27 2000	7.748	NW3	7.752	7.748						
7	Ø .50 x2	.496	NW3	DEC 01 2000			Coplanar flush pins						NW3	DEC 01 2000
(8)	.2													
	Serial #'s	02		04	06	08	10	12	14	16	18	20	22	
A	Even #'s + Conductivity MIL-STD-1537	38.7-38.9		38.7-38.8	38.9-39.0	38.8	38.7	38.5	38.8-38.9	38.7-38.9	38.7	38.7-38.9	38.7	
B	Even #'s - Finish 63 1000 - 125 per ASME B46.1	A 106		A 104	A-106	A-106	A 106	A 102	A 106	A 102	A 106	A 102	A 106	
		B 106		B 106	B-102	B 106	B 104	B 104	B 102	B 104	B 102	B 108	B 104	
C	Verify Serialization	.005 x .238 R	NW3	DEC 01 2000	.005 - .238 R	NW3	.004	.005 - .238					NW3	DEC 01 2000
D	Penetrant Inspect per ASTM-E 1417													

QTY INSPECTED 22 BY NW3 DEC 01 2000 ACCEPTED 22 REJ ___

Diamond H Testing Laboratories

3640 U.S. Highway 30, Pocatello, Idaho 83201
Phone 208/232-2663 Fax 208/232-2772

Report No. 1176

Certified Inspection Report
QSD 250

Customer: Northwest Machine	Date: 12-2-00	DHT Job No.: 00-0601-12
Project Description:	P.O. No: 14731	Customer Job. No.:
Job Location: DHT Boise	Percent Inspected: 100%	DHT Procedure No.: 1100
Surface Condition: AS welded	Type of Material: Alum 7175-7351	Temperature of Material: Ambient
Heat Treat: Before / After	Acceptance Standard: ASTM E1417	Inspection Standard:
Type of inspection: MT (PT)	Type of Work: (New) / Repair	

MT — MT Equipment: Dry ___ Wet ___ Visible ___ Fluorescent ___ AC ___ DC ___ Prod Spacing ___ Coil ___ Mag Particle color

PT — Penetrant material: Double chek; Water washable X / Solvent ___; Visible PT ___ / Fluorescent X; Dwell time: 30 min; Develop Time: 15 min; Dry ___ Wet X

DEFECT CODE: IP - Incomplete penetration; IF - Incomplete fusion; UC - Undercut; C - Crack; P - Porosity; S - Slag

Serial No . Piece No., Part No.	Accept	Reject	Defect code	Comments
JN 14556 A1A-01 Thru 22	/			22 pieces
JN 14557 A2A-01 Thru 12	/			12 pieces

NDI DEC 02 2000

The recorded results are the opinion of the technician to the best of his knowledge based on the information provided to him by the customer at the time of the inspection.

Customer: [signature] Technician: [signature] Level II

Assistant Technician: [signature] Level

REMIT TO:

TMX Division
PO Box 504213
The Lakes, NV 88905-4213

TMX DIVISION

INVOICE

INVOICE NO: H03815

ACCOUNT NO.	INVOICE DATE
46673	11/13/00

SOLD TO
NORTHWEST MACHINING &
MFG INC
1957 LANARK STREET
MERIDIAN ID 83642

AMOUNT ENCLOSED _____

PLEASE DETACH AND RETURN THIS PORTION WITH YOUR REMITTANCE.

SHIP TO
46673
NORTHWEST MACHINING &
MFG INC
1957 LANARK STREET
MERIDIAN ID 83642

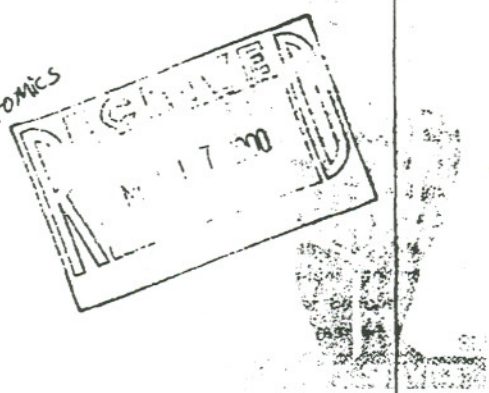
TMX DIVISION

SEND CORRESPONDENCE TO:
SUITE 225
1440 N HARBOR BLVD
FULLERTON CA 92635-4127
Tel: (503) 254-2600
Fax: (800) 926-8310

ORDER DATE	PURCHASE ORDER	CARRIER	FREIGHT	INVOICE NO	INVOICE DATE
11/09/00	14626	1Z0197550345585077	PPD	H03815	11/13/00

DESCRIPTION OF MATERIAL	BILLING QUANTITY	UNIT	PRICE	EXTENSION
091300 1 7075-T7351 ALUMINUM PLATE 1/2 CUT SAW 4" (+.063,-0) X 8" (+.063,-0) Test Results Attn to: QA Department. SHIP ALL MATERIAL FROM ONE HEAT LOT	24.00	PC	11.3200	271.68

14556
G-ATOMICS



INVOICE WILL BE DATED THE DAY OF SHIPMENT. INTEREST WILL BE CHARGED ON PAST DUE ACCOUNTS AT THE RATE OF 1-1/2% PER MONTH.

PRICE SHOWN IS SUBJECT TO PRICE IN EFFECT AT THE TIME OF SHIPMENT.
WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTION 6,7, AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

TOTAL $ 271.68

REMIT BY: 12/08/00

TERMS: NET 30 DAYS

TMX IS A DIVISION OF THYSSEN INC., N.A.

One Call Gets It All
(800) 926-2600

SALESPERSON:
TERI A. POPMA
Ext. 235
Fax: (800) 926-8310

TMX DIVISION

12817 NE AIRPORT WAY
PORTLAND OR 97230

ACKNOWLEDGMENT
NO. 12-154126

11/09/2000 9:06 AM

PAGE 1

46673
TO: NORTHWEST MACHINING & **
MFG INC
1957 LANARK STREET
MERIDIAN, ID 83642

SHIP TO: NORTHWEST MACHINING &
MFG INC
1957 LANARK STREET
MERIDIAN, ID 83642

ATTENTION: VIVIAN UPTON, (208)888-5334

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL	DELIVERY DATE
		THANKS FOR THE ORDER VIVIAN - TERI.			
1	24.00 PC 39.24 LB	**7075-T7351 ALUMINUM PLATE** **091300 - 1/2 CUT** **SAW 4" (+.063,-0) X 8" (+.063,-0)** Cust PO No: 14626. Test Results Attn to: QA Department. SHIP ALL MATERIAL FROM ONE HEAT LOT FOB: ORIGINATION, UPS GROUND, PREPAID QQ-A-250/12F, AMS 4078E, ASTM-B209-96 NON USI TESTED	11.3200 PC	$271.68	11/21/2000
2	14.00 PC 4.13 LB	**7075-T7351 ALUMINUM PLATE** **091300 - 1/2 CUT** **SAW 1.75" (+.063,-0) X 3.25" (+.063,-0)** Cust PO No: 14626. Test Results Attn to: QA Department. SHIP ALL MATERIAL FROM ONE HEAT LOT FOB: ORIGINATION, UPS GROUND, PREPAID QQ-A-250/12F, AMS 4078E, ASTM-B209-96 NON USI TESTED	3.3800 PC	$47.32	11/21/2000
		ORDER TOTAL		$319.00	

PRICES ARE QUOTED AS PRICE IN EFFECT AT TIME OF SHIPMENT.

TERMS : NET 30

PLEASE REVIEW THE ABOVE ITEMS FOR ACCURACY

BERYLLIUM & TELLURIUM COPPER, NEW CARBON STEEL BARS, MAXX STAINLESS STEEL, BRONZE, NICKEL, BEARING BRONZE
TITANIUM, AMPCO METAL, MAGNESIUM, OFE COPPER, RWMA ALLOYS, OFHC COPPER, ALUMINUM, GLASS SEALING ALLOYS
PRECISION SAWING, SLITTING, LEVELING, SHEARING, RE-ROLLING, ANNEALING, EDGE CONDITIONING, TRAVERSE WINDING

CUSTOMER	SHIP DATE	GROSS WEIGHT
46673	11/13/00 SHP	41

BILL TO:
NORTHWEST MACHINING &

WORK ORDER **
H03815

SHIP TO
NORTHWEST MACHINING & 01
MFG INC
1957 LANARK STREET
MERIDIAN ID 83642

CUSTOMER P.O. NUMBER	TERRITORY	ENTRY ID
14626	04	12TAP

BUYER	INSIDE SALES
VIVIAN UPTON	12TAP TERI A. POPMA

BUYER TELEPHONE	INSIDE SALES TELEPHONE
(208) 888-5334	(503) 254-2600 235

SHIP VIA	SHIPPING STATUS		
INTERNAL	COMPLETE	PARTIAL	CANCEL
	X		

TO CUSTOMER	FOB
ADDITIONAL INSURANCE FOR $200 REQUIRED UPS/1Z0197550345585077	ORIG
BILL OF LADING	FREIGHT STATUS
	PPD

PART DESCRIPTION 091300-4

7075-T7351 ALUMINUM PLATE
1/2 CUT
SAW 4" (+.063,-0) X 8" (+.063,-0)
Test Results Attn to: QA Department.
SHIP ALL MATERIAL FROM ONE HEAT LOT

Avail 494
Rack Location: Product Code: 0103

QUOTE		
12-154126-1	OF 2	**PACKING LIST**
ORDER DATE	TEST RESULTS	
11/09/00 ORD		

DELIVERY DATE	SHIP BRANCH	SELL BRANCH	WORK ORDER
11/21/00 DEL	17-WAL	12-PDX	H03815

THYSSEN
TMX DIVISION

TMX
5 STERLING DRIVE
WALLINGFORD CT 06492-1843

CUSTOMER SIGNATURE: DATE:

QUANTITY	ORDERED	SHIPPED
INVENTORY	39.24 LB	40.00
BILLING	24.00 PC	24.00
WAREHOUSE	24.00 PC	

PACKED WITH OTHER GOODS

FINISHED GOODS LOCATION

FULL	SCRAP	FILLED BY	PACKED BY	Q/A AUDIT
		JAR		

CUSTOMER RECEIVING HOURS | MAXIMUM SKID WEIGHT

LOADING INSTRUCTIONS | MAXIMUM BUNDLE WEIGHT

BOXES	BARS	CASES	CUSHP	PKGS	SKIDS	BDLS	TUBES	CTNS	FLAT	COILS
				1						

SPECIAL INSTRUCTIONS
ONLY SHIP DOMESTIC MATERIAL. CUSTOMER WILL REFUSE FOREIGN MATERIAL.

INSPECTION RECORD														

TEST RESULTS -----
CERTIFICATE OF COMPLIANCE
We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. We hereby certify that the material above complies with the following specifications:
QQ-A-250/12F AMS 4078E ASTM-B209-96
NON USI TESTED

NW 3 NOV 27 2000

TAG NUMBER	QUANTITY	UNIT	VENDOR	VENDOR PO	HEAT/LOT
H72761	40.00	LB	ALCOA INC	0831105	667111

LAWRENCE D. BUHL - General Manager: WALLINGFORD PRINTED 11/09/00 02:57 PM CONTROL NO 00165

CERTIFIED INSPECTION REPORT

Alcoa Inc.

PITTSBURGH, PA DAVENPORT WORKS

Ship From: DAVENPORT, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.
Per:

Ronald G. Machetta
Vice President Alcoa Mill Products

Michael J. Skoglund
Quality Assurance Manager

7713	127056				Page 1
Ship Date	B.L. No.	Invoice No.	Alcoa No.	Item	
1999-05-08	44914	27890	DS-15237-1		
P.O. No./Govt Contract No.		Customer			
831105		C&B-WALLINGFORD			

Ship To: COPPER & BRASS SALES INC
WALLINGFORD BRANCH
34 BARNES INDUSTRIAL RD
WALLINGFORD, CT 06492

Item Description
.500 IN TK X 48.500 IN W X 144.500 IN LN (N) A/T 7075-T7351
RECTANGULAR MILL FINISH, SAWED (PART 091300-4). PER
AMS-QQ-A-250/12 & EXCEPT MARKING AMS4078 REV E & EXCEPT MARKING
ASTMB209 REV 96 ((MARKED)) INTERLEAVED SKID WGT: 4000 LB
QUAN TOL +/-30 % CQR 0100460 REV 01
CUST REQ 99-05-02 *** W/E 99-05-08 ***

Num	Package Ticket	Lot	Weight	Quantity	UOM	Pc Id/Serl
1	240065	667111	2506	7	PC	
2	240065	667112	1789	5	PC	
3	240072	667111	703	2	PC	
			4998	14		

Notes for CQR: 0100460.01
PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ-A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12F. PRODUCT PRODUCED AND MARKED TO THE REQUIRE- MENTS OF QQ-A-250/12F ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12.

CQR: 0100460.1 -Specification Limits

Tmpr	Dir		UTS KSI	TYS KSI	EL4D PCT
T7351	Long Transv.	Max		68.9	
		Min	69.0	57.0	7

T7351 Elec. Cond. (EC) % MIN 38.0 PCT

Chemical Composition		SI	FE	CU	MN	MG	CR	ZN	TI	Other Each	Other Total	Aluminum
	Max	.40	.50	2.0	.30	2.9	.28	6.1	.20	.05	.15	
Alloy 7075	Min			1.2		2.1	.18	5.1				REMAIN

Lot: 667111 -Mechanical, Physical, Metallography, Quantometer Results

Tmpr	Dir	No. Test		UTS KSI	TYS KSI	EL4D PCT
T7351	Long Transv.	2	Max	73.5	63.6	11.4
			Min	73.3	63.3	11

Certification of Test Report
Customer Northwest

H0385	D	Customer PO 14626	Date 11/13

We hereby certify that this report represents materials shipped on the above order Copper & Brass Sales, Inc.

24 pc Initialed By: MR

C & BS
QC. APPROVED
17-2

NOV 27 2000

NW 3

CERTIFIED INSPECTION REPORT

Alcoa Inc.

PITTSBURGH, PA DAVENPORT WORKS

Ship From: DAVENPORT, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.
Per:

Ronald G. Machetta
Vice President Alcoa Mill Products

Michael J. Skoglund
Quality Assurance Manager

7713 127056

Ship Date	B.L. No.	Invoice No.	Alcoa No.	Item	Page 2
1999-05-08	44914	27890	DS-15237-1		

P.O. No./Govt Contract No. 831105

Customer C&B-WALLINGFORD

Lot: 667111 - Mechanical, Physical, Metallograpy, Quantometer Results (cont.) ----------

T7351 Elect Cond %IACS 39.5 39.5 PCT

Cast Number	Chemical	SI	FE	CU	MN	MG	CR	ZN	TI
H7796193	Actuals	.08	.31	1.4	.04	2.5	.18	5.7	.02

Lot: 667112 -Mechanical, Physical, Metallography, Quantometer Results ----------

Tmpr	Dir	No. Test		UTS KSI	TYS KSI	EL4D PCT
T7351	Long Transv.	2	Max	73.5	63.2	12.1
			Min	72.8	62.6	11.4

T7351 Elect Cond %IACS 39.7 39.7 PCT

Cast Number	Chemical	SI	FE	CU	MN	MG	CR	ZN	TI
H7796193	Actuals	.08	.31	1.4	.04	2.5	.18	5.7	.02

Certification of Test Report
Customer

Invoice #	Item	Customer PO	Date

We hereby certify that this report represents materials shipped on the above order
Copper & Brass Sales, Inc.

Initialed By:

NOV 27 2000

NW 3

Aging Landing Gear Life Extension Program
M-E-39035-112-10000-4 REV B

MEMORANDUM

To: DuWaine Emmons, NWMM
From: John Coates, MGB
Date: October 18, 2000
Subject: Statement of Work for Northwest Machining and Manufacturing
Manufacture Coupons for DPM Evaluation

Background

Under the ALGLE Program, testing will be conducted for OO-ALC/LILE to evaluate the survivability of marks applied with direct part marking processes for normal aircraft landing gear part overhaul conditions. Northwest Machining and Manufacturing was selected to manufacture the coupons for the evaluation.

Produce and Deliver

1. Steel Coupons
   - 1.1 Produce and deliver 22 coupons in accordance with drawing S1A (REV B) requirements.
   - 1.2 Produce and deliver 16 coupons in accordance with drawing S1B (REV B) requirements.
     - a. Deliver coupons S1B before heat treatment for marking.
     - b. Coupons S1B will be marked and returned for heat treatment.
   - 1.3 Produce and deliver 12 coupons in accordance with drawing S2A (REV B) requirements.
   - 1.4 Produce and deliver 6 coupons in accordance with drawing S2B (REV B) requirements.
     - a. Deliver coupons S2B before heat treatment for marking.
     - b. Coupons S2B will be marked and returned for heat treatment.
   - 1.5 For the Fluorescent Magnetic Particle Inspection, use full wave direct current (FWDC), wet continuous method, fluorescent type with the following acceptance/rejection criteria: NO DEFECTS ALLOWED. The intent of NO DEFECTS ALLOWED is that the inspection is conducted at the required sensitivity level and there shall be no indications allowed. The inspector performing the inspection will be certified to Level II with the inspection procedures developed by a Level III as specified in NAS-410.
   - 1.6 NWMM will not mark the coupons with the Data Matrix™ symbols.
2. Aluminum Coupons
   - 2.1 Produce and deliver 22 coupons in accordance with drawing A1A (REV B) requirements.
   - 2.2 Produce and deliver 12 coupons in accordance with drawing A2A (REV B) requirements.
   - 2.3 For the Fluorescent Penetrant Inspection, use Type I, Level 3 or 4, Method B or C, with the following acceptance/rejection criteria: NO DEFECTS ALLOWED. The intent of NO DEFECTS ALLOWED is that the inspection is conducted at the required sensitivity level and there shall be no indications allowed. The inspector performing the inspection will be certified to Level II with the inspection procedures developed by a Level III as specified in NAS-410.
   - 2.4 NWMM will not mark the coupons with the Data Matrix™ symbols.

Verification

1. Steel Coupons
   - 1.1 Provide manufacturing documentation for the steel coupons. The manufacturing documentation will include material certification, heat treatment certification, and final inspection certification. The manufacturing documentation will include the inspection results, the hardness test results, and the surface roughness test results.
2. Aluminum Coupons
   - 2.1 Provide manufacturing documentation for the aluminum coupons. The manufacturing documentation will include material certification, heat treatment certification, and final inspection certification. The manufacturing documentation will include the inspection results, the conductivity test results, and the surface roughness test results.

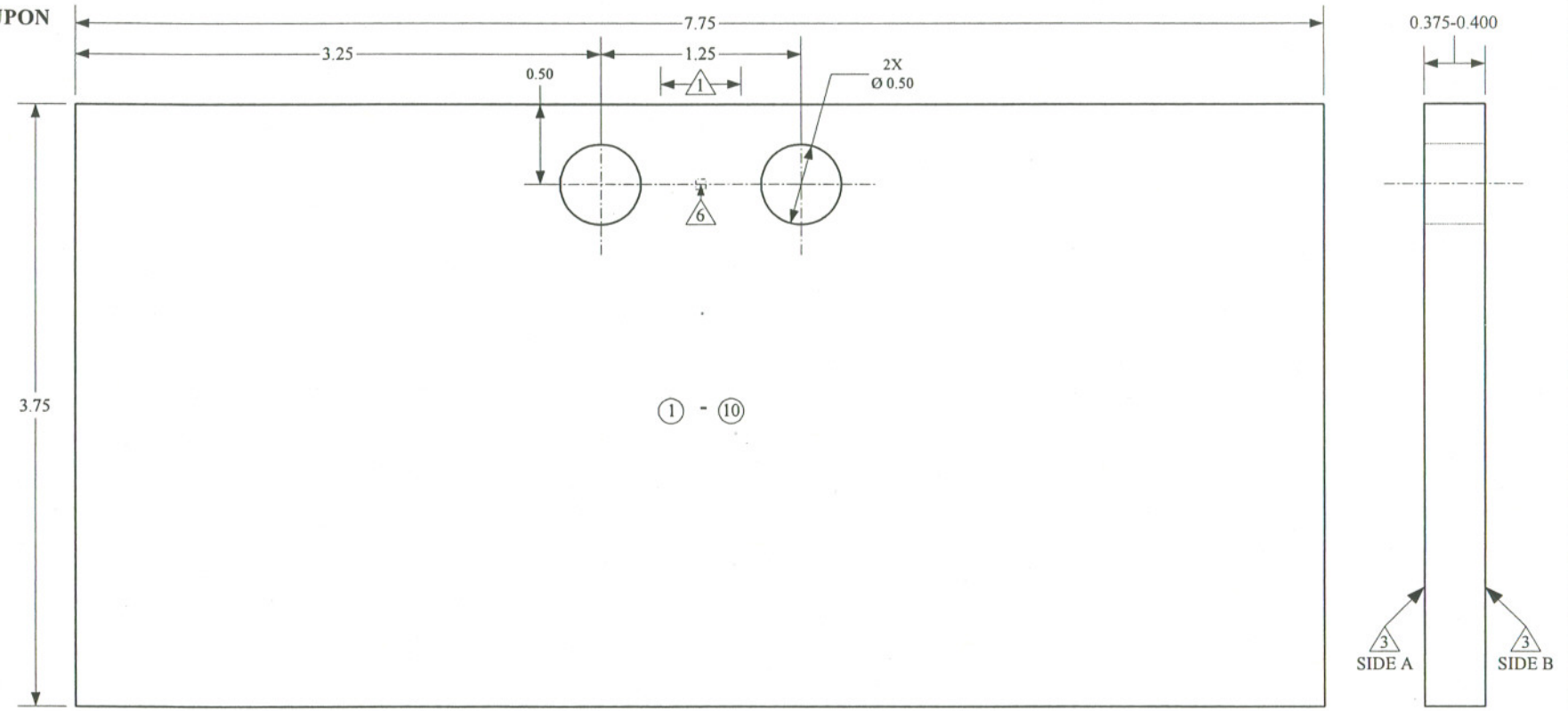
Handling and Packaging

1. Coat coupons in light oil between the manufacturing processes and before delivery to prevent corrosion.

Contacts

MGB: Engineering	Mr. John Coates	Phone: (801) 586-3052
NWMM: Sales	Mr. DuWaine Emmons	Phone: (208) 888-5334

COUPON



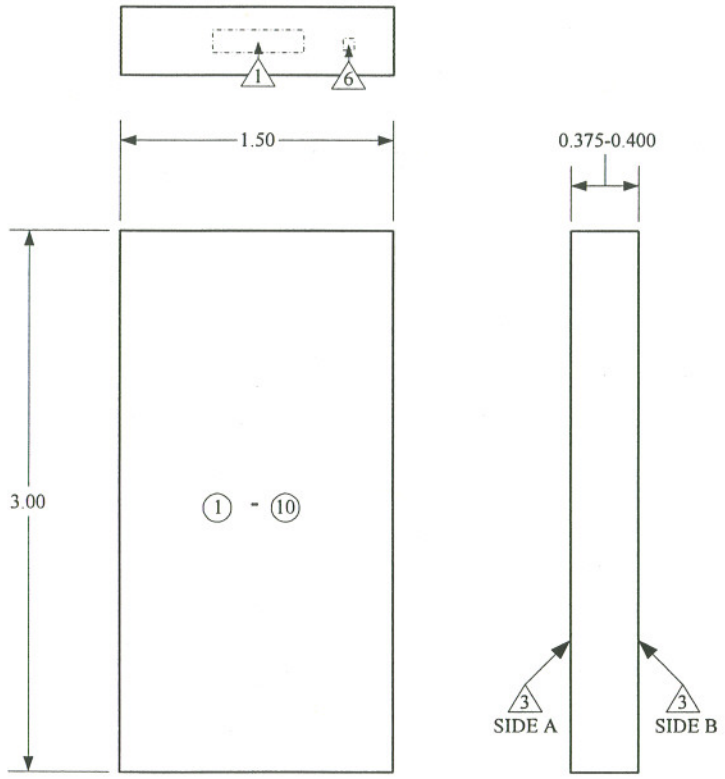
NOTES

1. SERIALIZE THE COUPONS S1A-01 TO S1A-22 ON TOP EDGE AT NOTED LOCATION USING 0.25 IMPRESSION STAMP, 0.004-0.008 DEEP
2. HEAT TREAT AND PROCESS TO 260-280 KSI ULTIMATE TENSILE STRENGTH PER AMS-H-6875, MAXIMUM ALLOWABLE DECARBURIZATION 0.003
3. $0.025\sqrt{\frac{125}{64}}$ M BEFORE 2, $\sqrt{\frac{125}{64}}$ M AFTER 2
4. BREAK ALL SHARP EDGES 0.005-0.015
5. FLUORESCENT MAGNETIC PARTICLE INSPECT PER ASTM E1444
6. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM ROCKWELL HARDNESS C TEST PER ASTM A370 AT NOTED LOCATION
7. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM SURFACE ROUGHNESS MEASUREMENT PER ASME B46.1

(1) – (10) MARK SIDE A WITH DATA MATRIX™ SYMBOLS

ALGLE PROGRAM	TITLE: COUPON	DRAWING NUMBER: S1A	REVISION: B	DIMENSIONS: ALL DIMENSIONS IN INCHES	TOLERANCES: UNLESS OTHERWISE NOTED X.X = ± 0.1, X.XX = ± 0.05, ANGLES = ± 0.5°	DRAWN: JOHN COATES
DPM EVALUATION	MATERIAL: 4340 PER AMS 6415	DATE: 10/18/00	SHEET: 1 OF 1	SCALE: NOT TO SCALE		CHECKED: FRANK ZUECH

COUPON



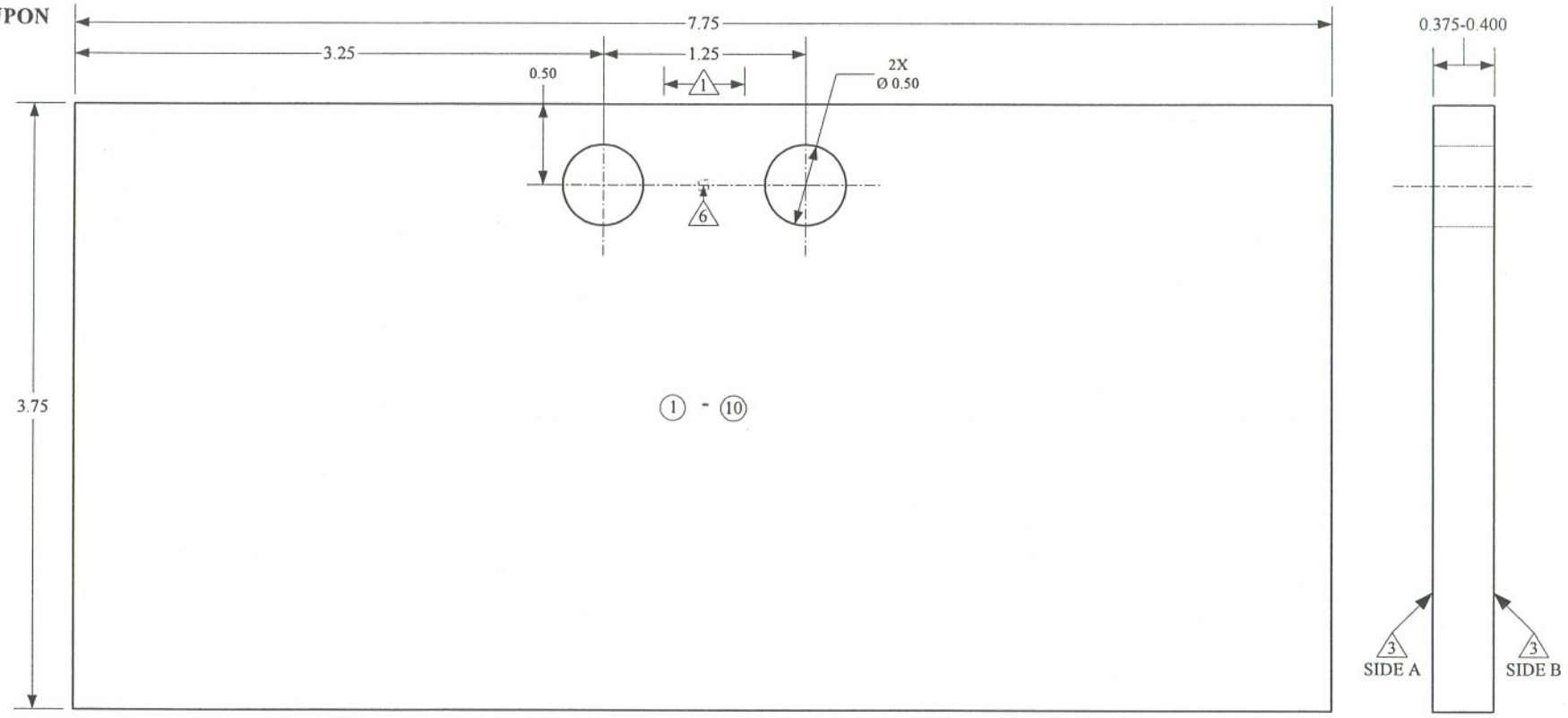
NOTES

1. SERIALIZE THE COUPONS S2A-01 TO S2A-12 AT NOTED LOCATION USING 0.25 IMPRESSION STAMP,0.004-0.008 DEEP
2. HEAT TREAT AND PROCESS TO 260-280 KSI ULTIMATE TENSILE STRENGTH PER AMS-H-6875, MAXIMUM ALLOWABLE DECARBURIZATION 0.003
3. $0.025\sqrt{\frac{125}{M}}\sqrt{\frac{64}{}}$ BEFORE 2, $\sqrt{\frac{125}{M}}\sqrt{\frac{64}{}}$ AFTER 2
4. BREAK ALL SHARP EDGES 0.005-0.015
5. FLUORESCENT MAGNETIC PARTICLE INSPECT PER ASTM E1444
6. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM ROCKWELL HARDNESS C TEST PER ASTM A370 AT NOTED LOCATION
7. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM SURFACE ROUGHNESS MEASUREMENT PER ASME B46.1

(1) – (10) MARK SIDE A WITH DATA MATRIX™ SYMBOLS

ALGLE PROGRAM	TITLE: COUPON	DRAWING NUMBER: S2A	REVISION: B	DIMENSIONS: ALL DIMENSIONS IN INCHES	TOLERANCES: UNLESS OTHERWISE NOTED X.X = ± 0.1, X.XX = ± 0.05, ANGLES = ± 0.5°	DRAWN: JOHN COATES
DPM EVALUATION	MATERIAL: 4340 PER AMS 6415	DATE: 10/18/00	SHEET: 1 OF 1	SCALE: NOT TO SCALE		CHECKED: FRANK ZUECH

COUPON



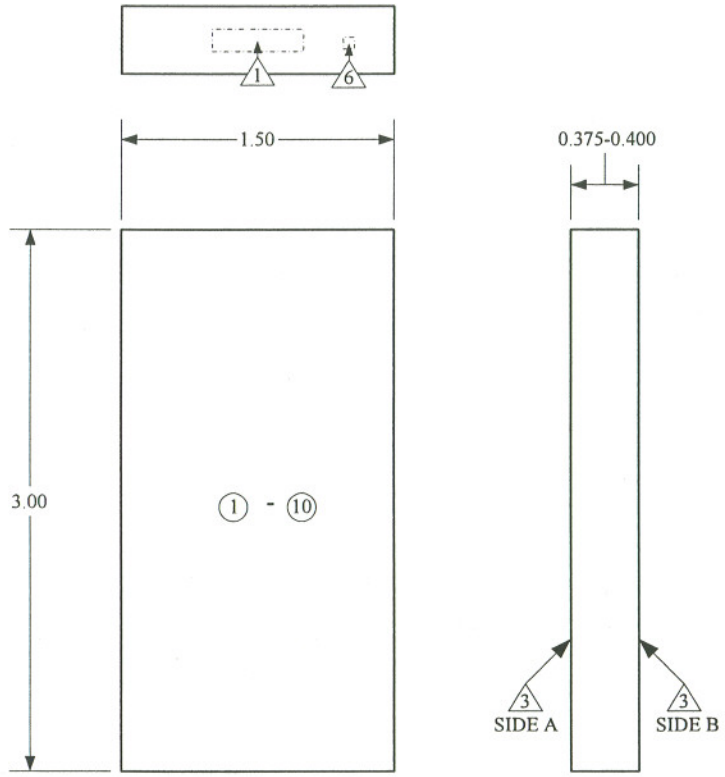
NOTES

1. SERIALIZE THE COUPONS S1B-01 TO S1B-16 ON TOP EDGE AT NOTED LOCATION USING 0.25 IMPRESSION STAMP, 0.004-0.008 DEEP
2. HEAT TREAT AND PROCESS TO 260-280 KSI ULTIMATE TENSILE STRENGTH PER AMS-H-6875, MAXIMUM ALLOWABLE DECARBURIZATION 0.003
3. $0.025\ \frac{125/\ 64}{\nabla\ M}$ BEFORE 2, $\frac{125/\ 64}{\nabla\ M}$ AFTER 2
4. BREAK ALL SHARP EDGES 0.005-0.015
5. i) FLUORESCENT MAGNETIC PARTICLE INSPECT PER ASTM E1444
   ii) INSPECT BEFORE AND AFTER MARKING (1) – (10)
6. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM ROCKWELL HARDNESS C TEST PER ASTM A370 AT NOTED LOCATION
7. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM SURFACE ROUGHNESS MEASUREMENT PER ASME B46.1

(1) – (10) i) MARK BEFORE 2
ii) MARK SIDE A WITH DATA MATRIX™ SYMBOLS

ALGLE PROGRAM ALGLE	**TITLE** COUPON	**DRAWING NUMBER** S1B	**REVISION** B	**DIMENSIONS** ALL DIMENSIONS IN INCHES	**TOLERANCES** UNLESS OTHERWISE NOTED X.X = ± 0.1 X.XX = ± 0.05 ANGLES = ± 0.5°	**DRAWN** JOHN COATES
DPM EVALUATION	**MATERIAL** 4340 PER AMS 6415	**DATE** 10/18/00	**SHEET** 1 OF 1	**SCALE** NOT TO SCALE		**CHECKED** FRANK ZUECH

COUPON



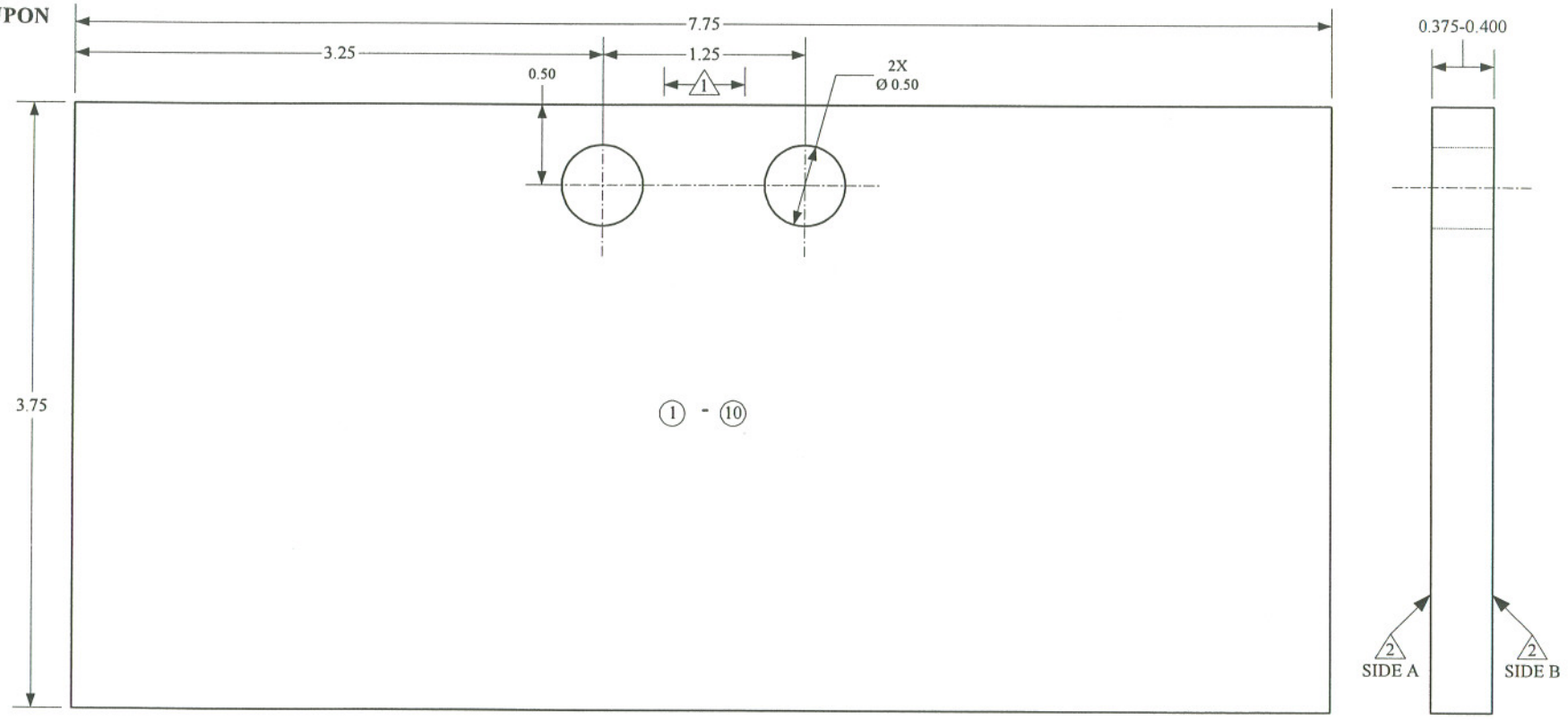
NOTES

1. SERIALIZE THE COUPONS S2B-01 TO S2B-06 AT NOTED LOCATION USING 0.25 IMPRESSION STAMP,0.004-0.008 DEEP
2. HEAT TREAT AND PROCESS TO 260-280 KSI ULTIMATE TENSILE STRENGTH PER AMS-H-6875, MAXIMUM ALLOWABLE DECARBURIZATION 0.003
3. $0.025\sqrt{\frac{125}{M}}\sqrt{64}$ BEFORE 2, $\sqrt{\frac{125}{M}}\sqrt{64}$ AFTER 2
4. BREAK ALL SHARP EDGES 0.005-0.015
5. i) FLUORESCENT MAGNETIC PARTICLE INSPECT PER ASTM E1444
   ii) INSPECT BEFORE AND AFTER MARKING (1) – (10)
6. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM ROCKWELL HARDNESS C TEST PER ASTM A370 AT NOTED LOCATION
7. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM SURFACE ROUGHNESS MEASUREMENT PER ASME B46.1

(1) – (10) i) MARK BEFORE 2
ii) MARK SIDE A WITH DATA MATRIX™ SYMBOLS

ALGLE PROGRAM	TITLE: COUPON	DRAWING NUMBER: S2B	REVISION: B	DIMENSIONS: ALL DIMENSIONS IN INCHES	TOLERANCES: UNLESS OTHERWISE NOTED X.X = ± 0.1, X.XX = ± 0.05, ANGLES = ± 0.5°	DRAWN: JOHN COATES
DPM EVALUATION	MATERIAL: 4340 PER AMS 6415	DATE: 10/18/00	SHEET: 1 OF 1	SCALE: NOT TO SCALE		CHECKED: FRANK ZUECH

COUPON



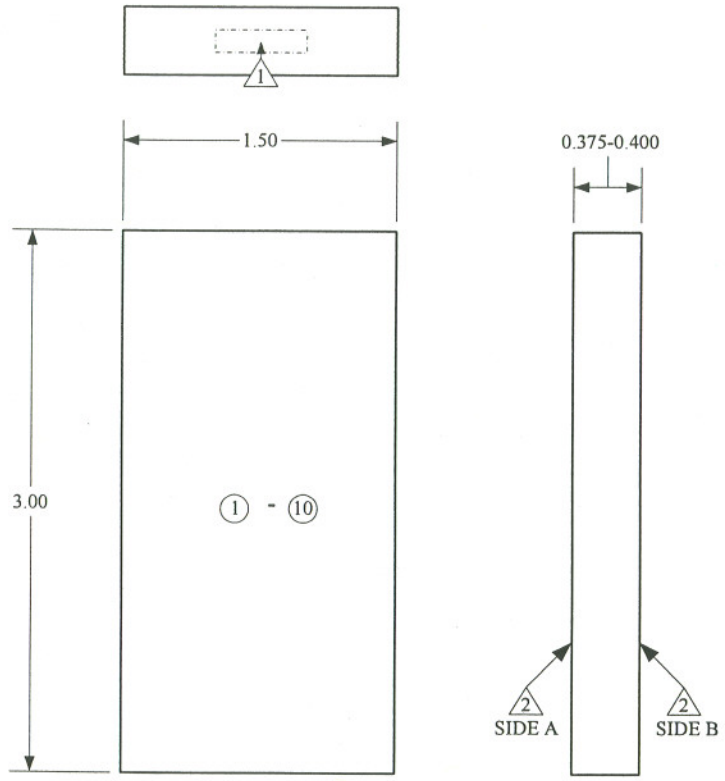
NOTES

1. SERIALIZE THE COUPONS A1A-01 TO A1A-22 ON TOP EDGE AT NOTED LOCATION USING 0.25 IMPRESSION STAMP, 0.004-0.008 DEEP
2. $0.025\sqrt{\ }\ \frac{125}{M}\sqrt{64}$
3. BREAK ALL SHARP EDGES 0.005-0.015
4. FLUORESCENT PENETRANT INSPECT PER ASTM E1417
5. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM CONDUCTIVITY TESTS PER MIL-STD-1537
6. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM SURFACE ROUGHNESS MEASUREMENT PER ASME B46.1

(1) – (10) MARK SIDE A WITH DATA MATRIX™ SYMBOLS

ALGLE PROGRAM	TITLE: COUPON	DRAWING NUMBER: A1A	REVISION: B	DIMENSIONS: ALL DIMENSIONS IN INCHES	TOLERANCES: UNLESS OTHERWISE NOTED X.X = ± 0.1, X.XX = ± 0.05, ANGLES = ± 0.5°	DRAWN: JOHN COATES
DPM EVALUATION	MATERIAL: 7075-T7351 PER AMS 4078 (0.5 INCH PLATE)	DATE: 10/18/00	SHEET: 1 OF 1	SCALE: NOT TO SCALE		CHECKED: FRANK ZUECH

COUPON



NOTES

1. SERIALIZE THE COUPONS A2A-01 TO A2A-12 AT NOTED LOCATION USING 0.25 IMPRESSION STAMP, 0.004-0.008 DEEP
2. $0.025\sqrt{\frac{125}{64}}$ M
3. BREAK ALL SHARP EDGES 0.005-0.015
4. FLUORESCENT PENETRANT INSPECT PER ASTM E1417
5. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM CONDUCTIVITY TESTS PER MIL-STD-1537
6. FOR COUPONS WITH EVEN SERIAL NUMBERS: PERFORM SURFACE ROUGHNESS MEASUREMENT PER ASME B46.1

(1) – (10) MARK SIDE A WITH DATA MATRIX™ SYMBOLS

ALGLE PROGRAM	TITLE: COUPON	DRAWING NUMBER: A2A	REVISION: B	DIMENSIONS: ALL DIMENSIONS IN INCHES	TOLERANCES: UNLESS OTHERWISE NOTED X.X = ± 0.1, X.XX = ± 0.05, ANGLES = ± 0.5°	DRAWN: JOHN COATES
DPM EVALUATION	MATERIAL: 7075-T7351 PER AMS 4078 (0.5 INCH PLATE)	DATE: 10/18/00	SHEET: 1 OF 1	SCALE: NOT TO SCALE		CHECKED: FRANK ZUECH